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Application No. 10/796,766

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Reply to Office Action

wherein the driving power level in said print density-driving power level characteristic of said thermographic material is rendered dimensionless by normalization.

- 14. (New) The process according to claim 13, wherein said one or more step wedges of print densities are printed simultaneously.
- 15. (New) The process according to claim 13, wherein steps (i) to (iv) are repeated at different places on said thermographic material to obtain further dependencies of said print density upon said heat produced by said heating elements for said thermographic material.
- 16. (New) A process for printing a substantially light-insensitive thermographic material with a thermal head printer with image-invariant printing speeds, said thermal head printer comprising one or more thermal heads each having an array of heating elements connected to a power supply capable of supplying a given number of heating element driving power levels from 0 to a maximum driving power level number, corresponding to  $P_{max}$ , said process comprising the steps of: calibrating said thermal head printer, transporting the substantially light-insensitive thermographic material past the thermal head, and image-wise heating of the substantially light-insensitive thermographic material by means of said heating elements, wherein said calibration comprises the steps of:
- (i) putting said printer into a calibration mode;
- (ii) printing one or more step-wedges of print densities by heating said thermographic material with said heating elements at different DPLN's;
- (iii) determining the optical density of each step of said step-wedge(s) of print densities with a densitometer thereby obtaining the dependence of said print density upon DPLN;
- (iv) deriving from said dependence, or all said dependences of said print density upon DPLN, a single smoothed dependence of the rate of change of print density, D, with DPLN,  $\Delta D/\Delta DPLN$ , as a function of DPLN for said thermographic material;
- (v) establishing a threshold rate of print density change per DPLN for the specific thermographic material being printed; and

Application No. 10/796,766

Reply to Office Action

(vi) setting up said thermal head printer so that said threshold rate of print density increase per DPLN cannot be undercut,

wherein the driving power level in said print density-driving power level characteristic of said thermographic material is rendered dimensionless by normalization.

This listing of claims replaces all prior versions, and listings, of claims in the application.